

PETROLEUM
AND ITS
PRODUCTS





General Offices of
The Texas Company at Houston, Texas

Petroleum and its Products



Port Arthur Works

Sealed, etc.
11

Petroleum and its Products



Reg. U. S. Pat. Off.

Manufactured by

The Texas Company
Houston, Texas

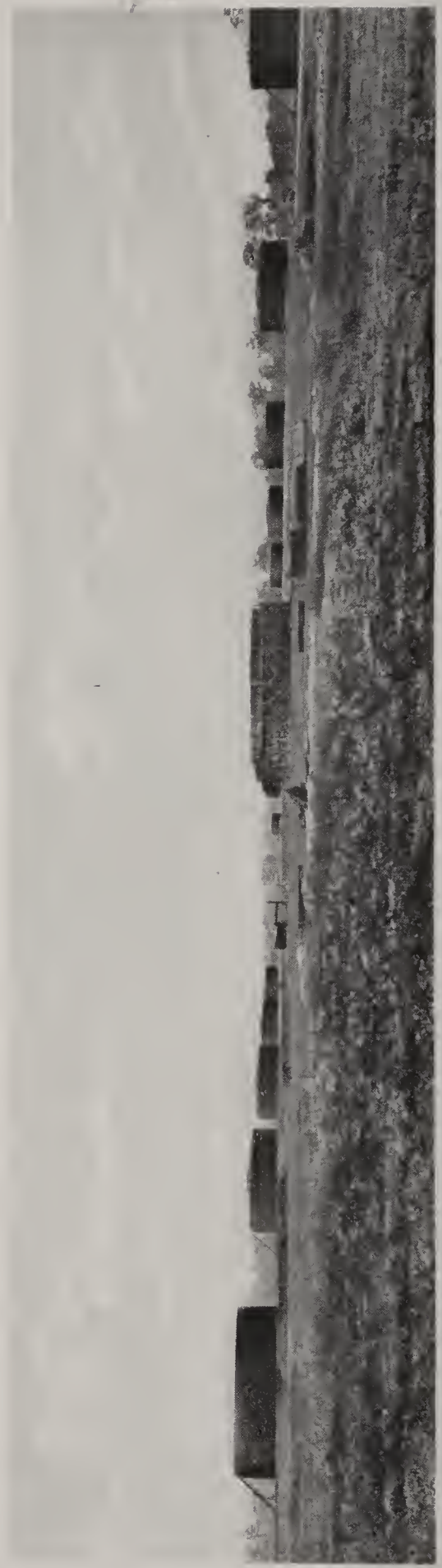
Export Dept: 17 Battery Place, New York City

European Offices: London and Antwerp

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Shreveport Tank Farm Looking East



Shreveport Tank Farm, Looking West


Foreword

This book is intended to give a general idea of the facilities of The Texas Company and some of the products of its manufacture. It is hoped that it will be of interest as indicating the extent and character of its equipment and activities in the refining and distributing of petroleum products, and showing that The Texas Company is fully prepared to ship in quantity all classes of these products, etc., to any part of the world.





Humble (Texas) Oil Field



Petroleum & its Products

THE Texas Company was formed in the year 1902 for the purpose of transporting, refining and distributing petroleum and its products from the Texas oil fields.

Headquarters were established first in Beaumont and later in Houston, refineries being located on the Gulf Coast at Port Arthur.

From the outset the utmost care was taken in the equipment of the refineries, the character of the different stations and facilities for distribution.

In order to produce and maintain products of the highest quality, an organization was gradually built up which is composed of men who are experts in the various lines connected with the petroleum industry.

Quality has been, and is, the watchword.

The resulting rapid success is shown from the extent of the Company's present activities.

At present The Texas Company has hundreds of miles of pipe-lines and numerous pumping stations, drawing supplies from the Oklahoma, Texas and



THE TEXAS COMPANY



Parthen Storage at Jennings, (La)



Flowing Well



PETROLEUM AND ITS PRODUCTS



Louisiana producing fields; four large refineries, a number of deep-water coast terminals, local stations all through the Southern and Eastern States and an extensive export business.

It is recognized as one of the largest and most active companies engaged in the petroleum industry and its goods are favorably known, the high standard established, having been maintained and improved so that Texaco Products are unsurpassed in value.





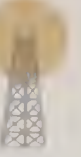
THE TEXAS COMPANY



Two View of Station at Mermentau, La.



Station at Evangeline, La.



PETROLEUM AND ITS PRODUCTS

The producing fields from which The Texas Company draws its supplies are situated in Oklahoma, Texas and Louisiana.

The Oklahoma pools form part of what is termed the Mid-continent Oil Region, and the gathering systems of The Texas Company extend through the most important of these, the Glen pool, Bald Hill, Flat Rock, Bird Creek and Bartlesville districts being the best known.

The Texas pools at Corsicana, Humble, Batson, Sour Lake, Saratoga and Spindle Top are all tapped, and the Louisiana fields at Shreveport and Jennings



Pipe-Line Gang in Cotton Field



THE TEXAS COMPANY



Station at Lake Charles, La

are also connected with the pipe-lines of The Texas Company. Further extensions of these pipe-lines are made from time to time as the production of new fields warrants the construction.

The producer, after drilling to the sand, which may be either in the shallow or deep producing area and from five hundred to over two thousand feet deep, erects tankage near the well. Where the wells flow the tanks may be filled by gravity, otherwise, pumps are installed to take the oil from the well to the tanks mentioned. The gathering system of The Texas Company connects with the producer's tanks and leads to the local pumping



PETROLEUM AND ITS PRODUCTS



Loading Racks at Lake Charles (La)

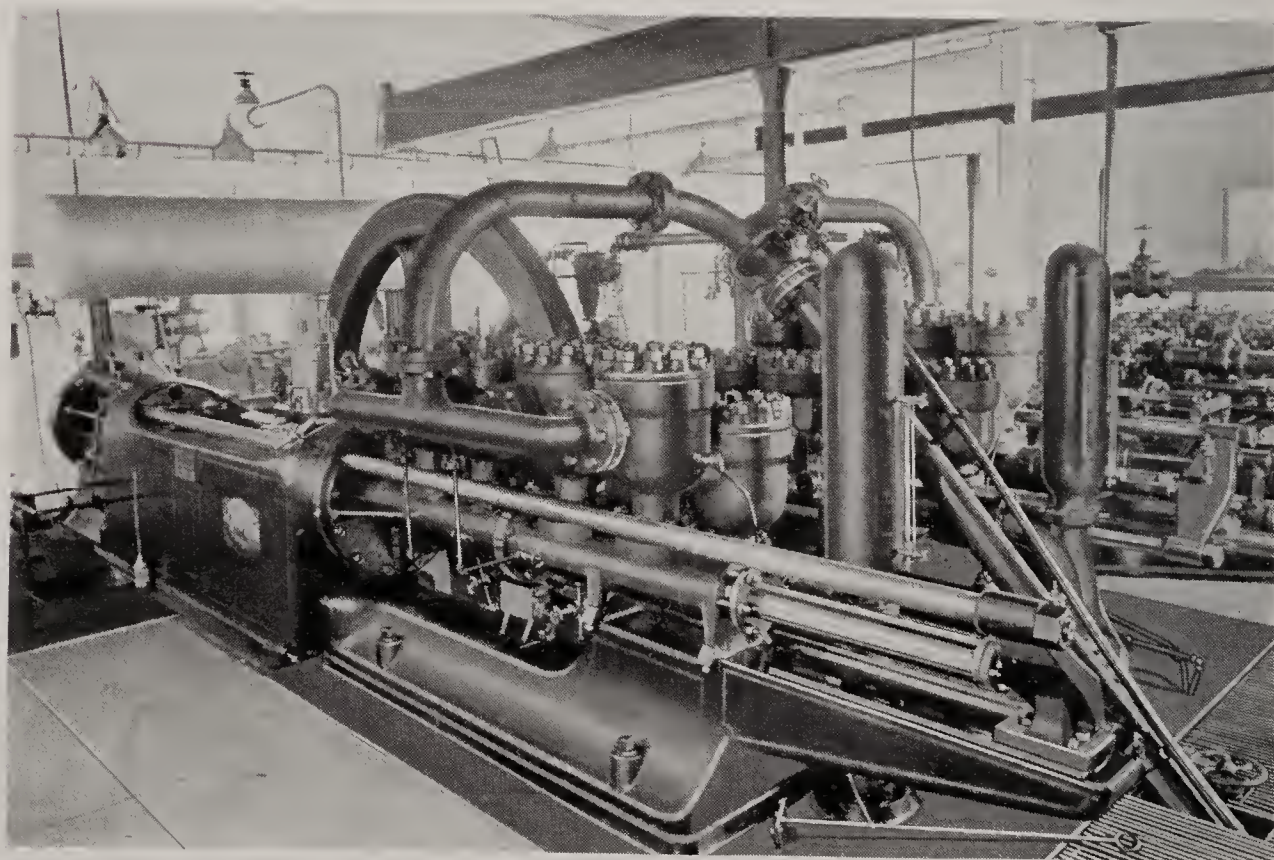
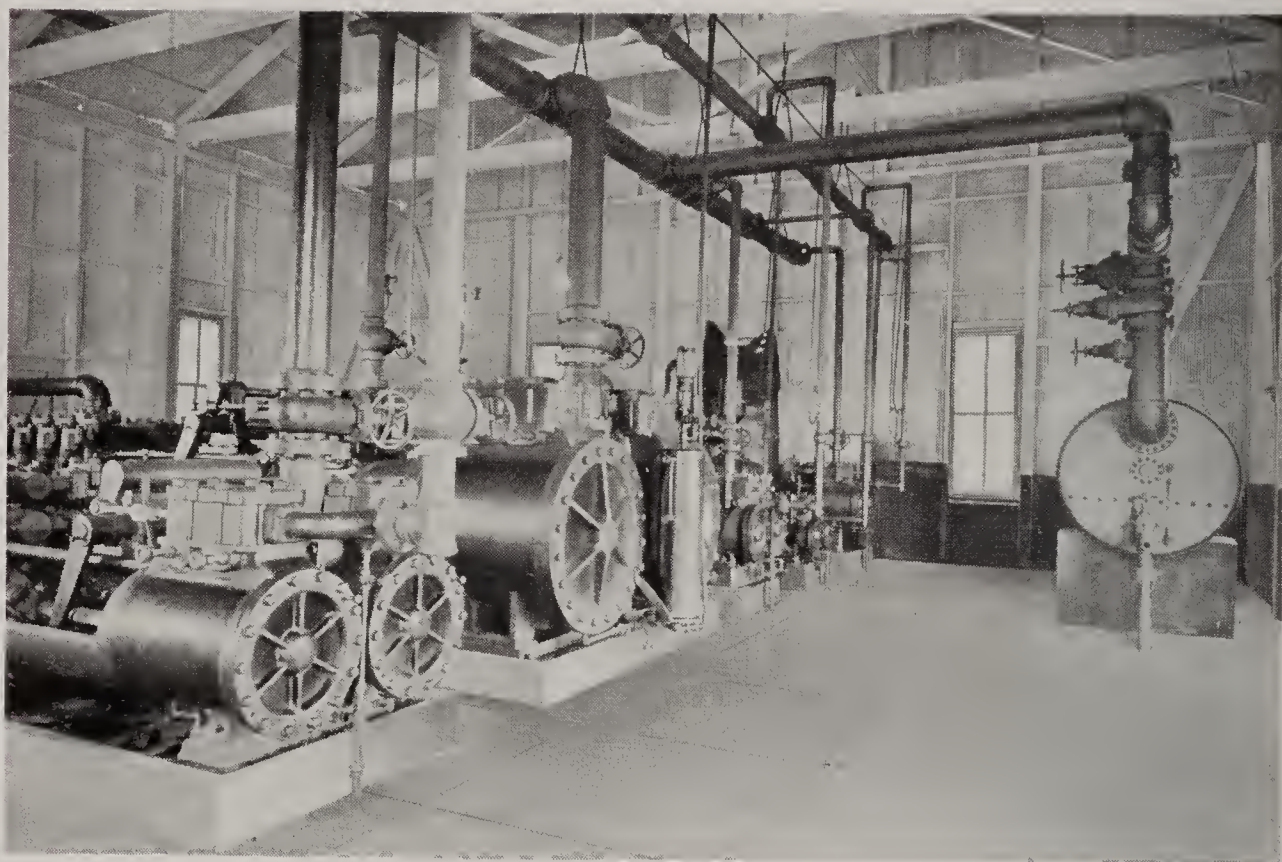
station, established at a convenient and central point in the producing field. At this local station a suction pump is kept running at all times, this pump creating a vacuum on the gathering lines so that, when the valve at the bottom of the producer's tank is opened, the oil flows through the gathering pipe to the pump and thence to the steel storage tanks at the pumping station.

The gathering systems of The Texas Company radiate from the trunk lines to all the various oil pools in Texas, Oklahoma and Louisiana.

The pumping station, which is situated in the oil field and from which the gathering lines radiate,



THE TEXAS COMPANY



Interior Views of Frank Line Pumping Station



PETROLEUM AND ITS PRODUCTS



is also connected to the trunk line. From the steel storage at this station the oil is pumped under a pressure of about 750 lbs. to the next station (probably 40 to 60 miles), when it is relayed to the next and so on.

At necessary points convenient to refineries and railroads, there are located so-called tank farms, consisting of groups of steel tanks of 37,500 to 55,000 barrels capacity. These tanks receive the oil from the pipe-lines and from these tanks the oil is delivered to the refineries or railroad.

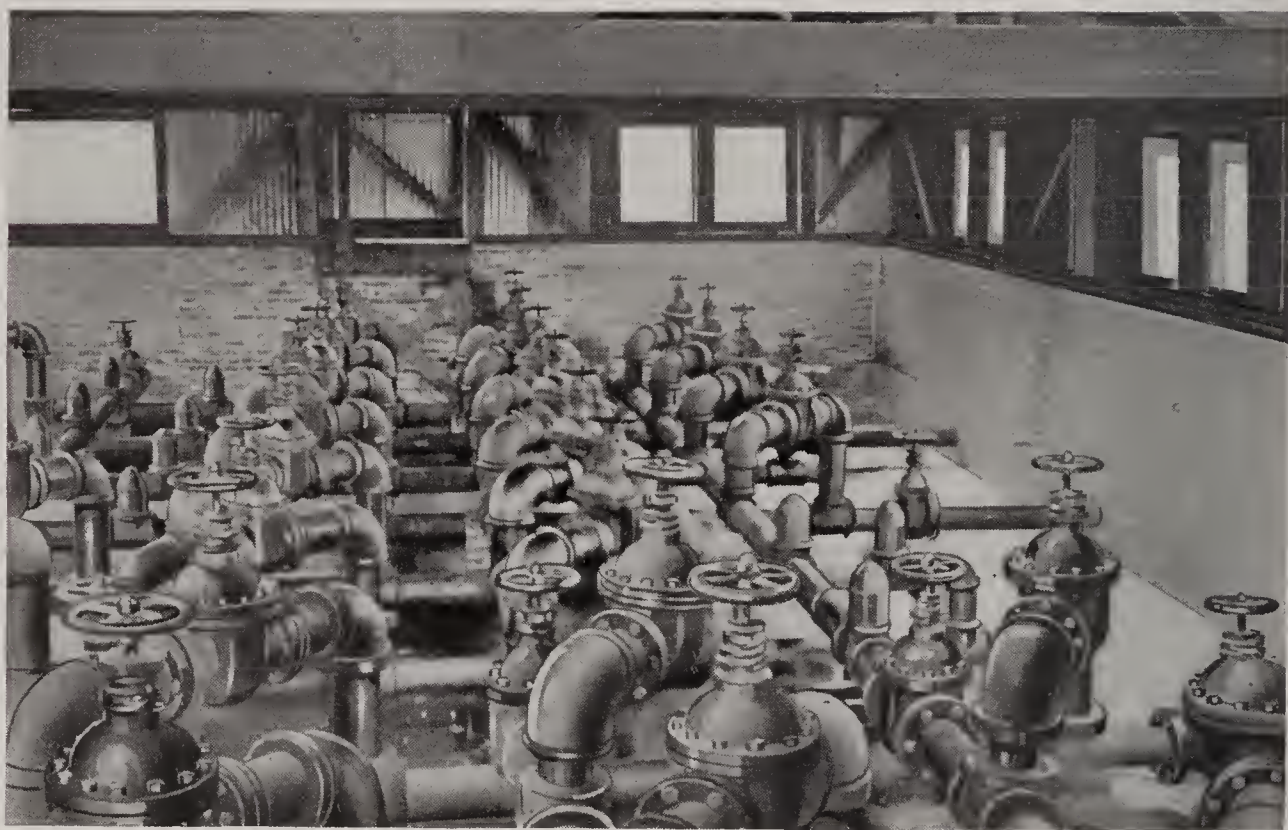
Telegraph and telephone lines parallel the pipe-lines, and the movement of oil through these lines is in charge of a dispatcher to whom telegraph operators report hourly as to the pressure, amount of oil received and pumped, so that each hour the dispatcher is fully informed as to the state of the business and security of the line.

A system of patrolling the pipe-line is in use, the line walkers reporting trouble of any kind by telephone, telephone boxes for the purpose being placed at frequent intervals along the line.

In order to facilitate the handling of oils at storage points and pumping stations, etc., manifolds are built at each station with a system of gate valves and by-passes so arranged that oil can be pumped from one station and received from another at the same time,



THE TEXAS COMPANY



Pipe Manifold at Pumping Station



Sour Lake Pumping Station

PETROLEUM AND ITS PRODUCTS

also allowing the engineer to divert the receipt or discharge of oil from one tank to another as they are emptied or filled. By this means also the oil can be passed round any station where repairs have necessitated a shut-down, or drawn out of a line when a break has occurred.

About twenty-five pumping stations and sixteen storage points are located on the various pipe-line systems.

Loading racks are maintained at all the storage points so arranged that a number of tank cars can be loaded at one time. These racks are arranged alongside the track with a line of pipe supported by timber framework. This pipe has connections at intervals with gate valves attached, so that one tank car can be filled from each connection.

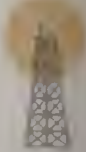
The total mileage of the pipe-lines owned and operated by The Texas Company, including the gathering systems and trunk lines, reaches over 1,000 miles, and further extensions are being built as required.

The refineries operated by The Texas Company are situated at Port Arthur, Port Neches and Dallas, Texas, and Tulsa, Oklahoma.

The refineries at Port Arthur, Dallas and Tulsa are devoted to the production of oils of various classes, the refinery at Port Neches manufacturing



THE TEXAS COMPANY



Dall



Dallas



Port A



PETROLEUM AND ITS PRODUCTS



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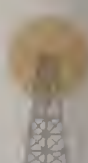
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Works



THE TEXAS COMPANY



Asphalt and Roofing Plant at Port Neches, Texas



bitumens for road purposes, waterproofing, flooring, paint, etc.; also roofing.

The crude oils from the different fields from which The Texas Company draws its supplies vary in character, the oils from each field being best adapted to the manufacture of certain kinds of products. Securing these several kinds of crude oil The Texas Company is in a position to manufacture the class of petroleum products of most value in different lines of industry, and the acknowledged value of Texaco products in this regard is recognized.

The best methods of continuous distillation in refining, the use of modern machinery and labor-saving devices in handling, the use of fireproof buildings of concrete and other permanent construction, are some of the means employed to secure maximum efficiency.

The power plants of the refineries are fitted with the latest Turbo-electrical generating sets furnishing power for lighting, running pumps and for all kinds of machinery.

The machine and boiler shops, car repair shops, carpenter shops, etc., which are maintained by us, are all fitted with the best available labor-saving devices and keep all our plants in excellent condition. In addition to the regular labor-saving devices, we have considerable special equipment which has been



THE TEXAS COMPANY



Case Loading at Port Arthur

PETROLEUM AND ITS PRODUCTS



built to suit our conditions and has enabled us to effect economies otherwise impossible.

The maintenance of large storage for all kinds of products insures their production in such quantities that the tests on same show great uniformity, enabling the consumer to obtain always the same high quality of product.

Some idea of the extent of the power plants involved can be gained from the fact that the necessary steam for refineries and stations is supplied by latest improved water tube boilers aggregating over 20,000 horsepower capacity.

Close to the refinery at Port Arthur a large terminal with docks, etc., is operated by The Texas Company from which bulk and case shipments are made to the other terminals on the United States coast and to foreign countries.

Located on this terminal are factories for the manufacture of cans and cases, and for the filling and packing of these ready for shipment.

Where gasolenes, naphthas, kerosenes, fuel oil, lubricating oils, etc., are loaded from the terminal in bulk, each grade of oil is loaded through a separate line to avoid any possibility of admixture. The steamers loaded vary in capacity from 400,000 to over 2,000,000 gallons capacity.

The space at the dock and facilities for loading



THE TEXAS COMPANY



Case Loading at Port Arthur



PETROLEUM AND ITS PRODUCTS



make it possible to load four to six steamers at one time.

For uniformity of product a cargo of one grade of oil is taken from one storage tank, the oil in the tank having been previously tested so that it agrees with standard requirements.

For the quick and economical handling of case goods, a can factory and a casing factory have been built on the dock and all cans and cases are manufactured at this point.

Three sets of concrete buildings are given up to the manufacture, filling and packing of the cans and cases.

The can factory is located in a two-story building with a one-story filling room, the storage of shooks and the manufacture of cases being conducted in another building, and the third given up to the storage of case oil packed and ready for shipment.

In the can factory the tin is put through a series of machines which bend, turn and clinch the different pieces together to form the can body. A conveyor carries them to the soldering machinery, which is entirely automatic, the can being placed in one end and removed at the other completely soldered at sides, top and bottom.

Another machine in the filling room automatically



THE TEXAS COMPANY



Storage for Case Goods



fills twelve cans at once. After filling and testing, the cans are placed in the shipping cases on a conveyor and carried to a nailing machine where the case is finally nailed up, pushed onto a second conveyor and carried to the storage warehouse.

The manufacture of cases is conducted on a series of nailing machines and printing done by machine.

For uniformity from 100,000 to 150,000 cases of oil are filled from the same storage tank after the tank has been tested as to standard.

Other terminals located on deep water and arranged with tank farms for storage of large quantities of all kinds of petroleum products, loading racks for railroad tank cars, barrelling houses, docks, etc., are maintained at convenient points along the Gulf and Atlantic coasts.

These terminals receive the oil from Port Arthur in bulk by vessel and are equipped with all facilities to handle Texaco products either in bulk or package with the utmost expedition.

Large stocks are maintained at these terminals at all times. These terminals are situated at

New Orleans, La.
Mobile, Ala.
Charleston, S. C.
Norfolk, Va.
Baltimore, Md.

Philadelphia, Pa.
New York, N. Y.
Providence, R. I.
Portland, Me.



THE TEXAS COMPANY



Docks at Marcus Hook, Philadelphia Terminal



Warehouses and Loading Racks at Marcus Hook, Philadelphia Terminal



Station at Antwerp, (Belgium)

For the proper handling of the Northern Continental European trade a large terminal and storage plant is maintained at Antwerp, Belgium.

The Texas Company owns and operates a fleet of ocean-going steamers and barges, also tugs, lighters and motor boats, carrying cargoes of bulk and case oil between the various terminals in this country and between Port Arthur and foreign ports.

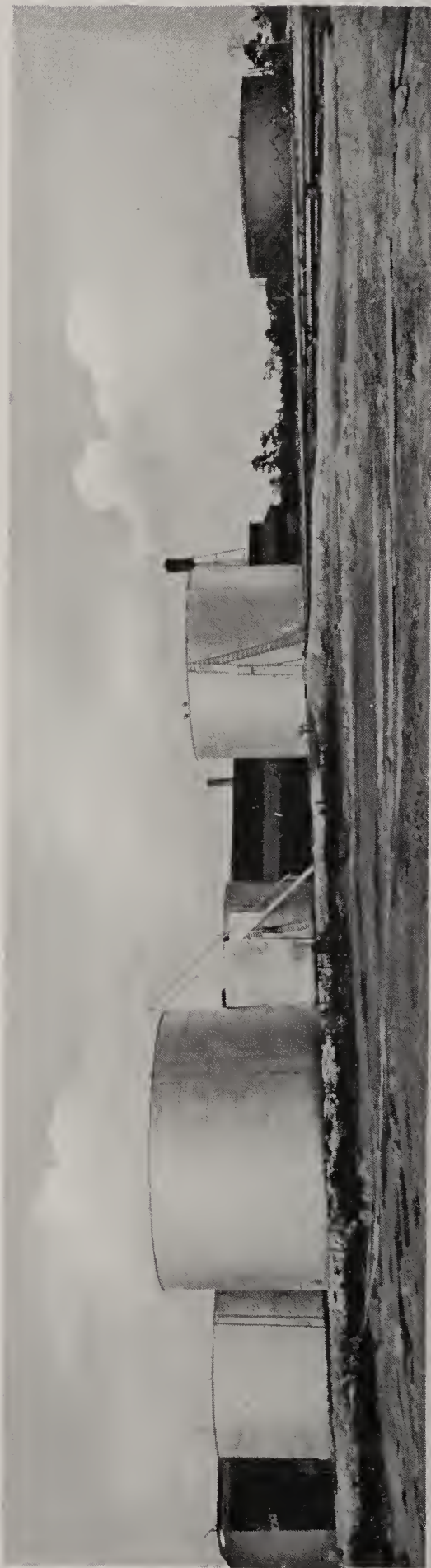
For rail transportation, The Texas Company owns over one thousand tank cars of 6,000 to 12,000 gallons capacity, beside a number of locomotives, crane locomotives and other railroad equipment necessary for the distribution of petroleum products.



THE TEXAS COMPANY



Bayonne N. J. Terminal



Norfolk (Va.) Terminal



PETROLEUM AND ITS PRODUCTS

Stations have been established for the distribution of refined oils and package goods in all the states from Arizona to Maine, and from Florida to the Rocky Mountains. These stations are fully equipped with tanks, pumps, storage for package goods, auto trucks, tank wagons and all necessary facilities for the local distribution of Texaco products.



Tanks at Antwerp Terminal



THE TEXAS COMPANY



Distributing Station, Mobile, (Ala.)



Distributing Station at Dallas, (Texas)

THE following description of some Texaco petroleum products will give a general conception of the extent of our manufactures. Further information can be secured by communicating with agents or addressing the Houston, New York, or other principal offices.



THE TEXAS COMPANY



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Docks and Terr



PETROLEUM AND ITS PRODUCTS



la.)



thur (Texas).



THE TEXAS COMPANY



Antwerp Station

Texaco Fuel Oil

This product is not a crude oil, but is specially prepared for fuel purposes. It is supplied with the requisite flash and fire tests for,

Stationary and Portable furnaces,
Railroad uses,
Marine uses,
Naval uses.

The use of fuel oil has extended rapidly in recent years and its efficiency is being generally recognized, especially for railroad and marine work, where the conditions are such that the advantages are of very great value.

Advantages of Fuel Oil

1. Saves a large amount of space, which can be turned into profitable storage, or omitted from original designing—reducing cost.
2. Eliminates the expensive dirty operation of coal-ing. Filling the tanks of the vessel with oil requires practically no labor, takes much less time and there is no dirt.
3. Gives over 50% greater evaporation, pound for pound, than coal.
4. Enables steam to be raised rapidly.
5. Materially lessens wear and tear on boilers.
6. Increases steaming radius.
7. Greatly reduces labor for fireroom.



THE TEXAS COMPANY



New Orleans Station



Galveston Station



PETROLEUM AND ITS PRODUCTS



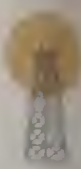
Houston Station



Pueblo Station



THE TEXAS COMPANY



S.S. Texas Flag Ship of the Texas Company's Fleet of Tank Steamers

PETROLEUM AND ITS PRODUCTS

Texaco Fuel Oil complies with all government and naval specifications.

Texaco Fuel Oil is being furnished to navies, railroads, and large fuel users in the United States and abroad.



Texaco Refined Oils

Texaco Deodorized Gasolines:

Prepared for automobile and motor boat use, unsurpassed for power-efficiency and economy.

Texaco Deodorized Naphthas:

Prepared for use in the manufacture of paints, varnishes, degreasing leather and other purposes.

Texene:

Mineral turpentine, the best mineral thinner for paints, etc., on the market.



THE TEXAS COMPANY



Steamers at Port Arthur Docks



Texaco Kerosenes:

Made with fire tests to comply with domestic and foreign regulations, of superior burning quality and color.

Texaco Lubricating Oils

Texaco Lubricating Oils are scientifically produced under the direction of experts who are thoroughly acquainted with the required conditions and the characteristics necessary for proper lubrication.

Engine and Machine Oils

Light-bodied Oils

Texaco Spindle

Texaco Dynamo

Texaco Par Engine

Texaco Famous

These oils are clear, light, mineral oils, suitable for lubrication of spinning machinery, respectively, for use on running parts and bearings of high-speed motors, generators, air compressors, Corliss Engines, etc.

Medium and Heavy-bodied Oils

Texaco Red

Texaco Honor

Texaco Top Notch Engine

Texaco Journal.



THE TEXAS COMPANY



S. S. "Northwestern"



S. S. Florida and Barge Dock at Riverville - New Orleans, La.



PETROLEUM AND ITS PRODUCTS

These oils are suitable for heavy duty machinery, car motors, mills, farm machinery, chain gears and shafting, machinery with loose bearings, etc.

For the exacting requirements of marine engine lubrication, we particularly recommend

Texaco Neptune Engine Oil

Oils adapted for use in mills, etc.

Texaco Extra Castor Machine

Texaco No. 1 Castor Machine

Texaco No. 2 Castor Machine

Black Oils

Texaco Winter Black

Texaco Summer Black

Also for car journals, shafting and gearing. Pure mineral oils, especially prepared, and not to be confused with various residuums offered for these purposes.

Air Compressor and Ice Machine Oils

Texaco Air Compressor for medium pressures

Texaco High Pressure Air Compressor

Texaco Heavy Air Compressor

Texaco Ammonia Oils

Cylinder Oils

Straight Mineral

Filtered

Compounded



THE TEXAS COMPANY



Interior Roofing Factory at Port Neches, Texas

PETROLEUM AND ITS PRODUCTS

For high and low pressure steam plants, superheated steam, high-speed engines, ice and refrigerating plants, locomotives, threshers, gins, etc. We mention a few of our most favored brands

Texaco Pinnacle Cylinder

Texaco Summit Valve

Texaco Top Notch Valve

Texaco Vanguard Cylinder

Texaco Regal Cylinder

Texaco Northland Cylinder.

Texaco Auto Oils

Kohinoor Auto Cylinder.

This is our best brand of filtered mineral auto oil for cylinders of gasoline automobile engines and marine motors, of very low cold test, free from carbon and guaranteed to be equal or superior to any cold test auto oils on the market.







PETROLEUM AND ITS PRODUCTS

Gas engine and auto oils for both air and water-cooled cylinders and internal combustion engines.

Texaco Auto Oil

Texaco Northland

Texaco Zerotex

Texaco Steam Auto Cylinder Oil

A bright, highly filtered cylinder oil especially adapted for lubricating steam auto cars such as White, Stanley etc.

Oils for Special Purposes

Tempering Oil

Thread Cutting Oil

Twine Oil

Harness Oil

Leather Oil

Tanners Oil

Ink Stock

Dipping Oil

Soap Oil

Transformer Oil

Turbine Oil

Wool and Yarn Oils.



THE TEXAS COMPANY



Texaco Greases or Solid Lubricants

Axle Grease, for

Wagons, carts and similar vehicles

Dredges

Lumber Mills

Chain Gears

Camshafts

Cup Greases for use where a high grade solid lubricant is required on moving parts of engine. Made in varying degrees of hardness to suit special needs.

Greases specially prepared for

Railways

Automobiles

Tramways and the like

Rail Cars

Driving Journals

Cars

Art Bodies

Mines and Foundries

Gears

Cogs

Pinions

Sugar Plantations.



THE TEXAS COMPANY



Loading tank wagons at Distributing Station



Storage Tanks at Distributing Station



Texaco Bitumens and Cements

Scientifically prepared for special purposes, such as

Paving

Roofing

Waterproofing

Tank Bottoms

Mastic

Pipe Coating

Insulation

Impregnating Compound

Rubber Stock

Saturated Felt.

Texaco Roofing

High grade prepared roofing, ready to lay, will not crack or dry out, fire resisting and waterproof. Manufactured by modern processes from the best selected felt and most perfect waterproofing material known.

Shipped for export in crates, two rolls to the crate. Each roll containing sufficient material to cover 200 square feet, including laps. The lap cement, nails and instructions for laying, are packed inside each roll.

For domestic shipment, TEXACO ROOFING is shipped in rolls to cover 100 square feet each including laps. Lap cement, nails and instructions in each roll. Made in three weights.

THE TEXAS COMPANY



Texaco Roofing packed for export



Appendix

The following information is given as of general interest to the buyer of oil products.

Packages for Petroleum Oils

Galvanized steel drums of approximately 55-gallons capacity.

Wooden barrels of approximately 50-gallons capacity.

Cases containing 2 5-gallon cans, dimensions, $21\frac{1}{2}$ " long by $10\frac{3}{4}$ " wide by $14\frac{3}{4}$ " high.

Cases containing 10 1-gallon cans, dimensions, $20\frac{1}{4}$ " long by $10\frac{1}{2}$ " wide by $14\frac{3}{4}$ " high.

Roofing Package for Export

No. 1

Av. Wt. Finish Roofing per Square	Width Roofing	Av. Wt. of 2 rolls sq. each	Av. Wt. Crate	Av. Wt. Crt. plus Rfg.	Length of Crt.	Depth of Crt.	Width of Crt.
40 pounds . . .	32 in.	160 lbs.	22 lbs.	182 lbs.	34 in.	$11\frac{1}{2}$ in.	21 in.

No. 2

50 pounds . . .	32 in.	200 lbs.	27 lbs.	227 lbs.	34 in.	$12\frac{5}{8}$ in.	$23\frac{1}{4}$ in.
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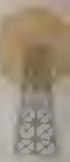
No. 3

60 pounds . . .	32 in.	240 lbs.	30 lbs.	270 lbs.	34 in.	14 in.	$26\frac{1}{2}$ in.
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Careful attention is paid to the packages for Texaco Products, all tin being of the best quality and cases extra strong.



THE TEXAS COMPANY



Lubricating Oil Storage Delaware River Terminal, Philadelphia, (P. 1)

PETROLEUM AND ITS PRODUCTS

U. S. Weights and Measures and their Approximate Equivalents.

Wine or Liquid Measure
U. S. Standard is Wine gallon.

1 Wine gallon	—	0.1336 cubic feet
1 Cubic foot	—	7.4805 wine gallons
1 Pint	— 28.875 cubic inches	0.4731 litres
1 Quart	— 57.75 “ “	0.9463 “
1 Gallon	— 231.00 “ “	3.785 “
1 Litre	—	61.02709 cubic inches
1 “	—	2.11416 pints
1 “	—	1.05708 quarts
1 “	—	0.26427 gallons

Weight

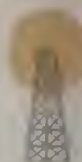
U. S. Standard is the pound avoirdupois.

1 Gramme	— one cubic centimeter of distilled water at 4 c
1 Grain	— 0.0648 gramme
1 Ounce	— 28.349 grammes
1 Pound	— 453.59 grammes
A Kilo (kilogram)	— 1000 gramme — 2.2046 lbs. avd.
1 Pound avd.	— 0.45359 kilograms

Imperial Liquid Measure

Imperial gallon is the standard of Great Britain.

1 Imperial gallon	—	277.274 cubic inches
1 “ “	—	0.1604 “ foot
1 “ “	—	4.542 litres
1 “ “	—	1.20032 wine gallons
1 Wine (U. S.) gallon	—	0.83311 Imperial gallon.



Comparative Table

Degrees Beaume	Degrees Specific	Pounds per U. S. Gallon	Kilo per U. S. Gallon
10	1.0000	8.33	3.78
11	.9930	8.27	3.75
12	.9861	8.22	3.73
13	.9792	8.16	3.70
14	.9725	8.10	3.68
15	.9659	8.05	3.65
16	.9593	7.99	3.63
17	.9529	7.94	3.60
18	.9465	7.89	3.58
19	.9402	7.83	3.56
20	.9340	7.78	3.54
21	.9279	7.73	3.51
22	.9218	7.68	3.49
23	.9159	7.63	3.47
24	.9100	7.58	3.44
25	.9042	7.53	3.42
26	.8984	7.49	3.40
27	.8927	7.44	3.38
28	.8871	7.39	3.36
29	.8816	7.35	3.34
30	.8762	7.30	3.32
31	.8708	7.26	3.30
32	.8654	7.21	3.28
33	.8602	7.17	3.26
34	.8550	7.12	3.24
35	.8498	7.08	3.22
36	.8448	7.04	3.20
37	.8398	7.00	3.18
38	.8348	6.96	3.16
39	.8299	6.91	3.14
40	.8251	6.87	3.12
41	.8203	6.83	3.10



Comparative Table—Continued

Degrees Beaume	Degrees Specific	Pounds per U. S. Gallon	Kilo per U. S. Gallon
42	.8156	6.80	3.09
43	.8109	6.76	3.07
44	.8063	6.72	3.05
45	.8017	6.68	3.04
46	.7972	6.64	3.02
47	.7927	6.60	3.00
48	.7883	6.57	2.99
49	.7839	6.53	2.97
50	.7796	6.50	2.95
51	.7753	6.46	2.94
52	.7711	6.42	2.92
53	.7669	6.39	2.90
54	.7628	6.36	2.89
55	.7587	6.32	2.87
56	.7547	6.29	2.86
57	.7507	6.25	2.84
58	.7467	6.22	2.83
59	.7428	6.19	2.81
60	.7389	6.16	2.80
61	.7351	6.12	2.78
62	.7313	6.09	2.77
63	.7275	6.06	2.75
64	.7238	6.03	2.74
65	.7201	6.00	2.73
66	.7165	5.97	2.71
67	.7128	5.94	2.70
68	.7093	5.91	2.69
69	.7057	5.88	2.67
70	.7022	5.85	2.66
75	.6852	5.71	2.60
80	.6690	5.57	2.53
85	.6536	5.45	2.48

THE TEXAS COMPANY

TEXACO

Reg. U. S.

Pat. Off.



PETROLEUM PRODUCTS

HOUSTON

NEW YORK



Rogers & Company
Chicago and New York

One copy del. to Cat. Div.

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